# WATER AND SEWER BOND SALES THE UNITED STATES

January-December 1966

U.S. DEPARTMENT OF THE INTERIOR
Federal Water Pollution Control Administration

### WATER AND SEWER

### **BOND SALES IN THE UNITED STATES**

January-December 1966

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
Division of Pollution Surveillance
Washington, D.C. 20242

### Other Publications in the Series

- Water and Sewer Bond Sales in the United States, 1965 Federal Water Pollution Control Administration Publication No. WP-16
- Water and Sewer Bond Sales in the United States, 1964 Public Health Service Publication No. 965
- Water and Sewer Bond Sales in the United States, 1963 Public Health Service Publication No. 965
- Water and Sewer Bond Sales in the United States, 1962 Public Health Service Publication No. 965
- Water and Sewer Bond Sales in the United States, 1961 Public Health Service Publication No. 965
- Water and Sewer Bond Sales in the United States, 1960 Public Health Service Publication No. 837
  - Water and Sewage Bond Sales in the United States
    January–December 1959
    Public Health Service (Unnumbered Publication)
  - Water and Sewage Bond Sales in the United States July 1956–June 1959

Public Health Service (Unnumbered Publication)

WP-16 (Formerly Public Health Service Publication No. 965)

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### INTRODUCTION

This annual report of Water and Sewer Bond Sales in the United States contains data which are basic and necessary to the orderly and efficient management of water supply and pollution control programs. It reflects, in a measure, the extent of financing to fulfill these two important public services in a growing nation. The report also provides a ready source of economic reference for financial, investment and banking interests; for the building and contracting trades and professions; and for authorities responsible for providing public water supplies and sewerage systems. The publication series, over the years, is a good indicator of interest rate and construction cost trends in these two types of public utility.

The tables supplement the annual publication of contract award data, to be reported in Sewage and Water Works Construction 1966. Similar tables which describe bonds sold between July 1956 and December 1965 are available. The basic information from which these tables were developed was obtained from the Investment Bankers Association by special arrangement. It is believed these tables present information not otherwise readily available.

Data are presented in three categories according to the use of the proceeds from the sale: (1) WATER when the bonds have been sold to finance water facilities; (2) SEWER, to finance sewage facilities; and (3) COMBINATION, to finance jointly water and sewage facilities where the portions attributable to each type are not designated. Data describing bonds sold to finance other types of construction in com-

bination with water and/or sewage facilities construction are excluded. Data describing bonds sold to finance storm sewers are omitted, although these data are available.

It should also be noted that these data describe only those sales reported to the Investment Bankers Association or assembled by that Association from available documents. Locally negotiated sales that may not be reported in bond publications or by State agencies responsible for controlling municipal bond sales are not included. Thus, these tabulations need to be considered as meaning "at least this much." By dollar value of sales, coverage is believed to be nearly complete.

Net interest cost figures shown on pages 8–10 are presented by month, by Moody rating, by dollar size of the bond issue, by population size, and by issuing authority. The figures listed are weighted averages, data being weighted by dollar amount of the issues. Similar tabulations are available for the years 1959 through 1965.

Water and sewer bond sales for 1966 totaled \$1,431 million, only \$14 million above 1965. Bonds for financing water facilities accounted for \$731 million, while those for building sewage treatment facilities and laying collecting sewers amounted to \$515 million. In addition, bonds totaling \$185 million were intended for use in combination projects for both water and sewerage construction. California again had the largest dollar volumes. The District of Columbia, Hawaii, Maine, West Virginia and the Virgin Islands reported no sales.

### BOND SALES 1957-1966 (Million dollars) BY YEAR

Year	Total		Water		Sev	ver	Combination	
Iear	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
1957	1,414	1,009	573	483	674	408	167	118
1858	1,492	1,045	610	405	715	526	167	114
1959	1,312	1,073	531	530	608	433	173	110
1960	1,382	1,003	587	499	614	389	181	115
1961	1,442	1,226	563	545	709	570	170	111
1962	1,240	1,119	495	418	606	594	139	107
1963	1,533	1,319	559	613	732	524	242	181
1964	1,474	1,485	607	769	661	551	206	165
1965	1,230	1,417	467	657	562	560	201	200
1966	1,023	1,431	358	731	488	515	177	185

### BOND SALES January-December, 1966 (Thousand dollars) BY MONTH

Month	r	Total		Water		Sewer		Combination	
Mondi	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	
January	1	106,037	28	21,169	43	78,937	12	5,931	
February		83,200	12	7,574	26	56,441	21	19,185	
March	89	117,486	36	69,834	38	31,522	15	16,130	
April	99	87,458	36	29,502	49	47,231	14	10,725	
May	83	258,350	31	210,498	38	33,651	14	14,201	
June	95	181,083	31	120,323	46	46,267	18	14,493	
July	72	53,389	28	32,735	32	18,298	12	2,356	
August	100	94,140	34	17,381	50	60,577	16	16,182	
September	90	142,424	31	74,032	44	39,960	15	28,432	
October		41,384	32	13,036	44	20,071	$\overline{16}$	8,277	
November		202,822	38	110,219	45	47,368	13	45,235	
December		63,977	21	25,128	33	35,124	11	3,725	
Total	1,023	1,431,750	358	731,431	488	515,447	177	184,872	

BOND SALES
January-December 1966
(Thousand dollars)
BY ISSUING AUTHORITY

Issuing authority	Total		Water		Sewer		Combination	
issuing authority	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
State County Municipality Township Special district Statutory authority	9 43 684 37 188 62	222,740 50,584 535,374 30,975 306,520 285,557	4 12 218 14 99 11	209,200 9,035 163,321 1,651 165,964 182,260	5 23 320 22 81 37	13,540 30,524 251,973 29,198 137,206 53,006	8 146 1 8 14	11,025 120,080 126 3,350 50,291
Total	1,023	1,431,750	358	731,431	488	515,447	177	184,872

### BOND SALES January-December 1966 (Thousand dollars) BY BOND ISSUE SIZE

	Total		Water		Sewer		Combination	
Dollar size of bond issue	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 50,000 50,000-100,000 100,000-200,000 200,000-500,000 500,000-1,000,000 1,000,000-2,000,000 2,000,000-5,000,000 5,000,000-10,000,000 Over 10,000,000	79 105 198 219 151 135 91 24 21	2,293 7,521 27,270 70,462 103,229 181,850 275,120 157,690 606,315	33 47 68 81 48 37 24 8 12	935 3,344 9,460 27,017 32,280 50,140 74,990 53,050 480,215	38 47 97 95 71 66 54 13	1,139 3,421 13,498 30,981 48,847 86,286 161,335 82,740 87,200	8 11 33 43 32 32 13 3 2	219 756 4,312 12,464 22,102 45,424 38,795 21,900 38,900
Total	1,023	1,431,750	358	731,431	488	515,447	177	184,872

## BOND SALES January-December 1966 (Thousand dollars) BY STATE

	To	otal	Wa	ter	Sew	er	Combina	tion
State	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	6	3,065	2	1,260	2	1,105	2	700
Alaska	1	1,400	1	1,400		L		
Arizona	6	12,310	2	6,350	3	4,210	1	1,750
Arkansas	2	9,380	1	1,100	1	8,280		
California	83	504,812	54	459,100	28	43,212	1	2,500
Colorado	14	21,528	7	17,495	4	3,393	3	640
Connecticut		13,115	1	1,500	9	11,495	1	120
Delaware		3,950	1	100	6	3,850		
District of Columbia								
Florida	17	26,920	6	6,415	4	5,410	7	15,095
Georgia		19,209	3	5,550	1	2,500	12	11,159
Hawaii								
Idaho		130					1	130
Illinois	32	51,972	7	5,509	11	33,548	14	12,915
Indiana		35,846	12	15,473	14	20,373		
Iowa		9,267	4	1,165	22	7,875	1	227
Kansas		1,157	2	251	9	906		
Kentucky	25	13,376	9	7,156	11	2,695	5	3,525
Louisiana	28	7,166	4	1,548	23	5,468	1	150
Maine		ļ						
Maryland	15	39,670	3	10,470	11	28,200	1	1,000
Massachusetts	87	43,081	50	22,963	35	18,353	2	1,765
Michigan	95	40,483	31	10,446	48	24,756	16	5,281
Minnesota	38	23,691	11	6,081	23	14,075	4	3,535
Mississippi	9	16,490	4	2,355	4	13,285	1	850
Missouri	24	28,759	8	2,153	10	25,583	6	1,023
Montana	4	1,460	1	165	2	1,035	1	260
Nebraska	8	3,180	1	185	7	2,995		
Nevada	4	7,647	1	147	3	7,500		
New Hampshire	7	4,901	2	705	5	4,196		
New Jersey	47	49,779	17	6,717	25	38,442	5	4,620
New Mexico	4	10,755	2	5,020	2	5,735		
New York	40	47,932	23	27,405	16	18,992	1	1,535
North Carolina	36	19,495	12	8,346	19	10,189	5	960
North Dakota	3	2,466	1	1,200			2	1,266
Ohio	70	54,319	23	13,791	40	38,433	7	2,095
Oklahoma	21	5,754	7	2,362	7	1,386	7	2,006
Oregon	26	9,057	11	7,000	13	1,909	2	148
Pennsylvania	34	35,485	2	3,115	30	31,545	2	825
Puerto Rico	2	18,000					2	18,000
Rhode Island	1	465	1.	465				
South Carolina	8	12,470	2	650	4	5,570	2	6,250
South Dakota	3	1,163	2	538	1	625		
Tennessee	16	58,550	3	1,850	5	18,750	8	37,950
Texas	62	97,286	9	55,155	7	3,379	46	38,752
Utah	5	2,375	1	100	3	1,600	1	675
Vermont	5	5,040	1	490	4	4,550		
Virginia	8	9,300	2	1,450	2	3,200	4	4,650
Virgin Islands				+				
Washington	16	24,455	7	3,685	7	19,455	2	1,315
West Virginia								
Wisconsin	11	23,339	3	4,750	7	17,389	1	1,200
Wyoming	1	300	1	300		<del> </del>		
Total	1,023	1,431,750	358	731,431	488	515,447	117	184,872

### BOND SALES

### January-December 1966

### (Thousand dollars)

### BY POPULATION OF ISSUING AUTHORITY

Population size of	Total		W	Water		wer	Combi	nation
issuing authority	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	338	120,649	114	33,979	148	55,842	76	30,828
10,000–25,000	134	110,611	37	28,395	63	48,192	34	34,024
25,000–50,000	107	101,112	34	29,821	59	52,531	14	18,760
50,000–100,000	72	104,929	27	43,156	35	41,491	10	20,282
100,000–250,000	45	70,541	18	15,688	22	44,948	5	9,905
250,000-500,000	35	88,622	10	28,427	22	30,695	3	29,500
500,000-1,000,000	16	74,759	5	29,780	8	33,152	3	11,827
Over 1,000,000	15	269,660	7	230,940	8	38,720		
Unidentified	261	490,867	106	291,245	123	169,876	32	29,746
Total	1,023	1,431,750	358	731,431	488	515,447	177	184,872

### BOND SALES

### January-December 1966

(Thousand dollars)

### BY TYPE OF ISSUE

	Т	otal	Wa	ater	Sev	ver	Comb	ination
Type of issue	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
General obligation bonds Unlimited Tax Unlimited Tax Secured By:	568	776,026	215	429,310	304	310,844	49	35,872
Utility Revenue Special Assessment Limited Tax Limited Tax Secured By: Special Assessments _	+	15,102 24,835 51,061 607	3 18 17	1,600 2,629 13,419	6 40 28	12,882 20,851 33,562	2 8 8 1	620 1,355 4,080
Revenue bonds  Utility Revenue Special Tax Revenue (Florida) Rental Revenue Utility Revenue	303 3 11	543,419 2,250 18,100	99	276,926	98 3 3	125,013 2,250 9,350	106	141,480  1,350
Secured By: Special Tax Revenue Total	1,023	350 1,431,750	358	731,431	1 488	350 515,447	177	184,872

### GENERAL OBLIGATION BOND SALES

### January-December 1966 (Thousand dollars)

### BY NET INTEREST COST RANGES

		<del></del>	RA MEI IM	I LIKEOT CO		<del></del>		T	
Net i	interest cost range	T	otal	w	ater	Se	wer	Combination	
	midpoint	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
3.000									
		1 1	1,155	3	915	2	240	L	
			119,168	23	33,896	36	81,807	5	3,465
			117,894	26	59,992	39	51,870	6	6,032
			361,128	57	266,364	91	76,419	16	18,345
		1 4001	72,679	46	31,964	56	38,908	4	1,807
	Act 200 (20) 200 (20) 200 (20) 200 (20)	94	80,345	29	20,876	56	55,587	9	3,882
	-		25,767	14	2,779	25	22,014	6	974
			14,856	10	3,103	24	10,762	4	991
		13	7,538	3	1,310	7	3,388	3	2,840
		8	2,880	5	871	3	2,009		
5.750		1	3,800	1	3,800				
6.000		4	14,260	2	10,460	2	3,800		
6.250		1	250	1	250				
6.500		1	3,800	1	3,800				
6.750				L					
7.000		1	450	1	450	L			
N.I.C.	unknown	89	41,661	32	6,275	42	31,680	15	3,706
	Total	705	867,631	254	447,105	383	378,484	68	42,042

### REVENUE BOND SALES

### January-December 1966

### (Thousand dollars)

### BY NET INTEREST COST RANGES

Net interest cost range	Total		Water		Sewer		Combination	
midpoint	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
3.000								
3.250	1	1,350	1	200	1	1,000	 1	150
3.500		5,895	1	1,895	1	3,000	ī	1,000
3.750		43,765	5	12,300	10	13,590	5	17,875
4.000	(	247,459	14	175,335	18	32,295	17	39,829
4.250	38	45,763	12	19,210	13	13,570	13	12,983
4.500	1	81,583	16	12,357	25	37,380	15	31,846
4.750	1	11,687	9	3,835	7	2,383	9	5,469
5.000	1	66,399	11	38,215	10	11,228	16	16,956
5.250	1	7,910	2	2,395	3	3,900	1	1,615
5.500		19,510	3	4,150	2	12,500	4	2,860
5.750	5	6,670	. 4	4,920			1	1,750
6.000								
6.250								
6.500	I .							
6.750 7.000								
N.I.C. unknown		26,128	26	9,514	15	6,117	26	10,497
Total	318	564,119	104	284,326	105	136,963	109	142,830
	<u> </u>							

# BOND SALES NET INTEREST COST January-December 1966 (Percent) BY MONTH

	Tota	ıl	Wa	iter	Sewer		
Month	General obligation	Revenue	General obligation	Revenue	General obligation	Revenue	
January February March April May June July August September October November December	3.89 3.67 3.98 3.97 4.02 4.62	3.93 4.03 4.44 4.22 4.06 4.59 4.23 4.94 4.73 4.80 4.47 4.64	4.11 3.85 3.81 3.66 3.98 3.95 4.01 4.29 4.34 4.43 4.13 5.96	3.83 3.97 4.48 4.55 4.08 4.04 4.26 4.61 4.87 4.88 4.67 5.15	3.57 3.97 4.13 3.66 3.99 3.99 4.00 4.67 4.45 4.21 4.11 4.35	3.95 4.07 4.39 4.14 3.96 4.78 4.08 4.68 4.51 4.50 5.29 4.43	

# BOND SALES NET INTEREST COST January-December 1966 (Percent) BY MOODY RATING

	Tota	1	Wa	iter	Sewer		
Moody rating	General obligation	Revenue	General obligation	Revenue	General obligation	Revenue	
AAA	3.59	4.98	3.52	4.54	3.68		
AA	3.88	3.93	3.95	4.00	3.69	4.03	
A	4.04	4.10	4.01	4.09	4.06	4.06	
BAA	4.27	4.67	4.23	4.87	4.31	4.06	
BA	4.99	4.35	5.46	4.61	4.68		
Unknown	4.63	4.74	4.82	4.94	4.42	4.63	

# BOND SALES NET INTEREST COST January-December 1966 (Percent) BY DOLLAR SIZE OF ISSUE

Dollar size of bond issue	Total		Water		Sewer	
	General obligation	Revenue	General obligation	Revenue	General obligation	Revenue
Under 50,000	4.42 4.22 4.30 4.23 4.17 4.20 4.15 4.02 3.98	4.53 4.58 4.50 4.52 4.46 4.45 4.33 4.21 4.27	4.31 4.10 4.39 4.25 4.15 4.21 4.31 3.91 4.04	4.24 4.57 4.70 4.42 4.76 4.53 4.36 4.19 4.21	4.50 4.29 4.22 4.22 4.19 4.21 4.08 4.09 3.65	4.50 4.43 4.47 4.29 4.31 4.23 4.31 5.01

## BOND SALES NET INTEREST COST January-December 1966 (Percent)

### BY POPULATION OF ISSUING AUTHORITY

Population size of issuing authority	Total		Water		Sewer	
	General obligation	Revenue	General obligation	Revenue	General obligation	Revenue
Under 10,000	4.33	4.65	4.21	4.61	4.40	4.59
10,000–25,000	4.12	4.47	4.12	4.30	4.11	4.25
25,000-50,000	4.09	4.30	4.01	4.30	4.12	4.28
50,000-100,000	4.04	4.36	4.03	4.55	4.07	4.16
100,000-250,000	3.98	3.95	3.67	3.85	4.12	3.96
250,000-500,000	3.82	4.05	3.83	4.02	3.81	4.17
500,000-1,000,000	3.91	3.86	3.88	4.12	3.92	
Over 1,000,000	3.97		4.00		3.80	
Unidentified	4.33	4.35	4.51	4.25	4.13	4.53

# BOND SALES NET INTEREST COSTS January-December 1966 (Percent)

### BY ISSUING AUTHORITY

Issuing authority	Total		Water		Sewer	
	General obligation	Revenue	General obligation	Revenue	General obligation	Revenue
State County Municipality Township Special district Statutory authority	4.02 3.74 4.05 4.28 4.24 3.67	5.13 4.28 4.23 4.94 4.20	4.01 4.27 3.95 4.47 4.38 3.58	5.64 4.27 4.00 4.98 4.07	4.12 3.67 4.08 4.26 4.07 4.86	4.71 4.28 4.25 4.72 4.56

